

IN THE CLAIMS

Please amend the claims by deleting words shown with strikethrough and adding words that are underlined.

1. (Original) A composition comprising fibers of electroprocessed collagen or electroprocessed fibrinogen, wherein the fibers have an average diameter between about 50 nm and about 10 μ m, and the composition is effective as a sealant.

2. (Original) A composition comprising isolated fibers comprising collagen or fibrinogen, wherein the fibers have an average diameter between about 50 nm and about 10 μ m, and the composition is effective as a sealant.

3. (Original) A composition comprising electroprocessed fibrinogen, wherein the electroprocessed fibrinogen is insoluble in water.

4. (Original) A composition comprising fibrinogen, wherein the fibrinogen is insoluble in water.

5. (Currently amended) A composition comprising electroprocessed fibrinogen or electroprocessed collagen, wherein the electroprocessed fibrinogen or the electroprocessed collagen is present as fibers having a repeating banding pattern.

6. (Original) A composition comprising an electroprocessed material, wherein the electroprocessed material is effective as a sealant.

7. (Currently amended) The composition of Claim 1 ~~any of Claims 1-6~~, wherein the composition is effective to cause hemostasis.

8. (Currently amended) The composition of Claim 1 ~~any of Claims 1-7~~, further comprising a substance.

9. (Original) The composition Claim 8, wherein the substance is selected from thrombin, aprotinin, Factor XIII, calcium chloride, hydroxyapatite, a fibrinolytic inhibitor, a fibrinolytic agent, fibronectin, or a combination thereof.

10. (Canceled) The use of the composition of any of Claims 1-9 in the preparation of a sealant.

11. (Canceled) The use of the composition of any of Claims 1-9 in the preparation of a medicament useful in providing physical reinforcement to tissue, repairing an injury or defect in tissue, promoting healing, causing hemostasis, or a combination thereof.

12. (Original) A method of manufacturing a composition, comprising electroprocessing one or more electrically-charged solutions comprising collagen, fibrinogen, or a combination thereof under conditions effective to electrodeposit electroprocessed material onto a substrate to form fibers having an average diameter between about 50 nm and about 10 μ m.

13. (Currently amended) A method of manufacturing the composition of Claim 1 ~~any of Claims 1-9~~, comprising electroprocessing one or more electrically-charged solutions comprising material under conditions effective to electrodeposit electroprocessed material onto a substrate to form the electroprocessed material.

14. (New) A method of providing physical reinforcement to tissue, repairing an injury or defect in tissue, promoting healing or causing hemostasis comprising applying the composition of Claim 1 to tissue requiring physical reinforcement, repair, healing, hemostasis or a combination thereof.